

CLAIMS

1. A coating agent composition comprising:

(A) 100 parts by weight of an acrylic-type copolymer that has a weight-average molecular weight within the range of 3,000 to 100,000 and is obtained by radical-polymerization of the following constituents:

(A1) 100 parts by weight of a silane compound represented by the following general formula (1):



(where R^1 is a hydrogen atom or a methyl group, Q is a bivalent aliphatic hydrocarbon group with 2 to 6 carbon atoms, R^2 is a non-substituted or substituted univalent hydrocarbon group having 1 to 8 carbon atoms, R^3 is an aliphatic hydrocarbon group having 1 to 4 carbon atoms, and n is an integer from 0 to 2);

(A2) 80 to 250 parts by weight of one or more types of vinyl-polymerizable compounds with unsaturated bonds selected from an acrylic-type compound (except for constituent (A1)), a vinyl-type compound, and styrene-type compound;

(A3) 10 to 50 parts by weight of a siloxysilane compound represented by the following general formula (2):



(where R^1 and Q are the same as defined above, and R^4 is an alkyl group with 1 to 4 carbon atoms); and

(B) a catalytic quantity of a condensation-reaction accelerating catalyst.

2. The coating agent composition of Claim 1, further comprising (C) an organic solvent in the amount sufficient for dissolving component (A).

3. The coating agent composition according to Claims 1 or 2, further comprising (D) an aminosilane coupling agent in the amount of 0.1 to 10 parts by weight per 100 parts of component (A).

4. The coating agent composition of Claim 3, wherein said component (D) is selected from the group consisting of 3-aminopropyltriethoxysilane, 3-aminopropyltrimethoxysilane, 3-aminopropylmethyldiethoxysilane, 3-aminopropylmethyl-dimethoxysilane, 3-(2-aminoethyl) aminopropyltrimethoxysilane, 3-(2-aminoethyl) aminopropylmethyldimethoxysilane, and 3-anilinopropyltrimethoxysilane.

5. The coating agent composition according to any of Claims from 1 to 3, wherein said component (A) comprises an acrylic-type copolymer obtained by copolymerization with participation of an azo compound used in the amount of 0.3 to 0.99 mole per 100 moles of the sum of constituents (A1), (A2), and (A3).
6. The coating agent composition according to any of Claims from 1 to 3, wherein said constituent (A2) is an alkylmethacrylate.
7. The coating agent composition according to Claim 6 that provides a cured coating film having pencil hardness at least 4H.
8. The coating agent composition according to any of Claims from 1 to 3, wherein said constituent (A1) is selected from the group consisting of 3-methacryloxypropyltrimethoxysilane, 3-acryloxypropyltrimethoxysilane, 3-methacryloxypropyltriethoxysilane, 3-acryloxypropyltriethoxysilane, and 3-methacryloxypropylmethyldimethoxysilane, and 3-methacryloxypropylmethyldiethoxysilane.
9. The coating agent composition according to any of Claims from 1 to 3, wherein said component (B) is selected from the group consisting of an organotitanium compound, organozirconium compound, and organoaluminum compound.